Installation schematic: copper plate in an earth pit with GIM

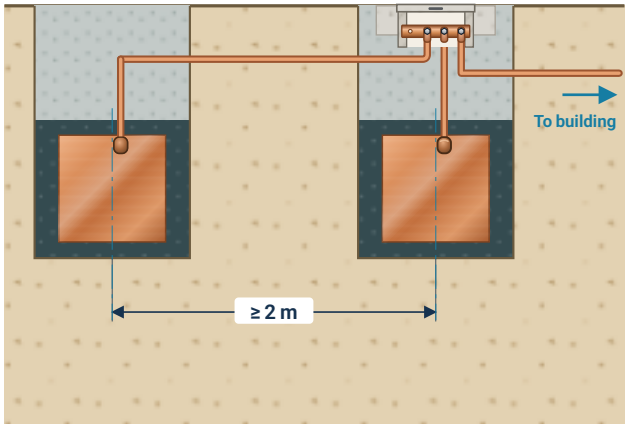
Vertical plate in a GIM hole, exothermically welded conductor, earth pit and earth bar, green and yellow conductor above ground only

SOLID COPPER EARTH PLATE · SCEP · 660 × 660 / 660 × 500 · H 3 / 5

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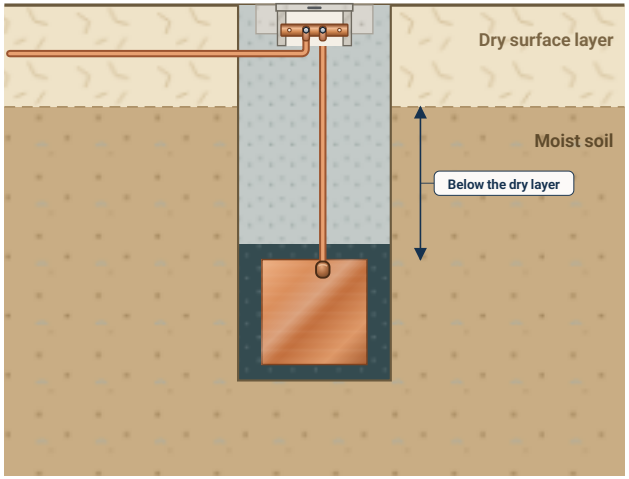
b) Two plates at least 2 m apart

Two parallel plates at least 2 m apart lower the total resistance; the linking conductor is bare copper.

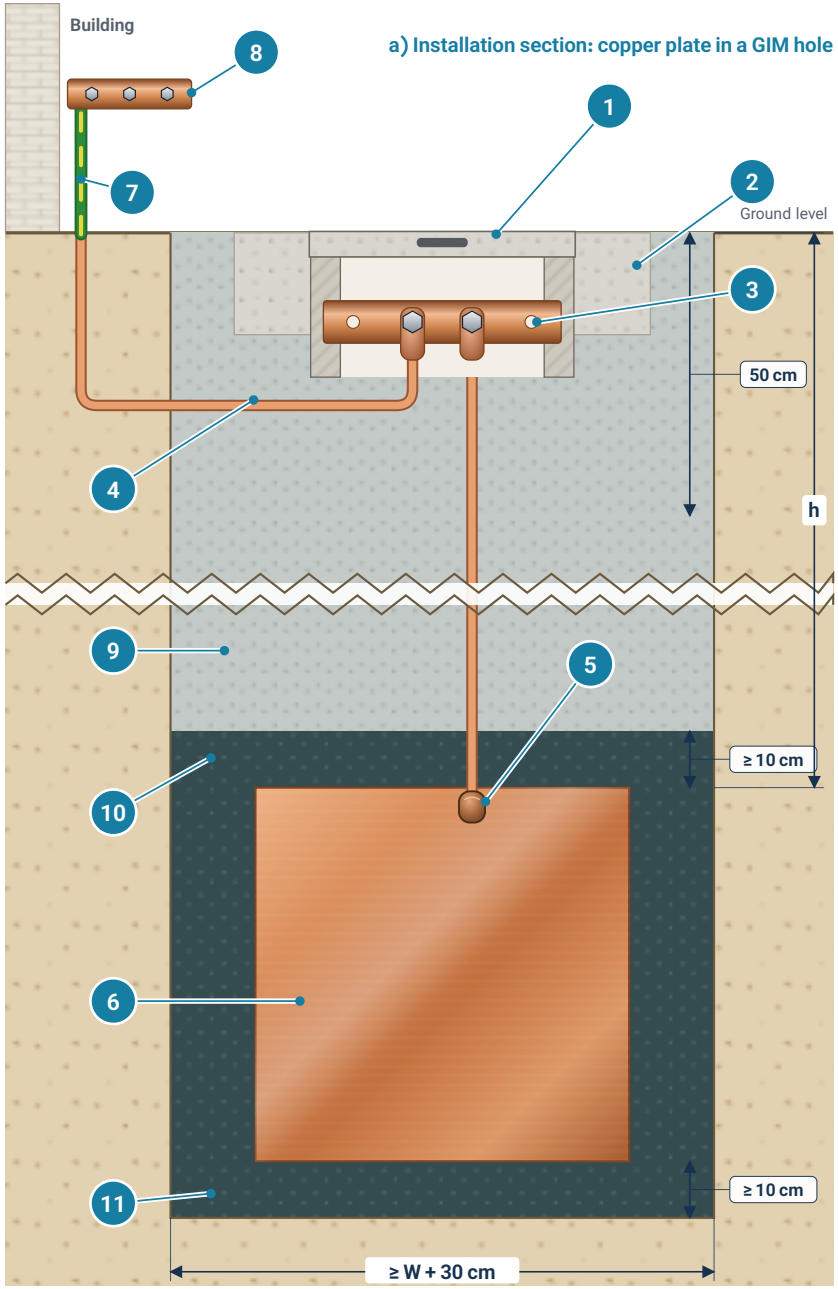


c) Deeper plate in dry ground

We dig the hole deeper so the plate's top edge sits below the dry surface layer, in moist soil.



a) Installation section: copper plate in a GIM hole



Key

KALOT earth pit 1
Concrete or polyethylene, in the top 50 cm

Concrete around the pit 2
Always, so the pit does not tilt

Pit earth bar and cable lug 3
Connection, inspection and measurement point

Bare copper conductor 4
In the soil and inside the pit, uncovered

exothermic welding 5
Conductor on the plate; at least one point

Vertical copper plate 6
Standing on the GIM bed

Green and yellow conductor 7
Above ground only, to the building

Building main earth bar 8
On the building wall, on insulators

Screened soil 9
Filled and compacted

GIM over the plate 10
At least 10 cm above the edge

GIM bed 11
At least 10 cm below the plate

Hole diameter At least 30 cm more than the plate width W: 96 cm for 660 × 660 and 80 cm for 660 × 500.

Illustrative schematic, not to scale; conductors in the soil and inside the pit are bare copper, and only the above-ground part is green and yellow.

h: in moist ground, at least 1.5 m of soil over the plate's top edge; in dry ground, the plate deeper than 3 m (Iranian Building Code, Topic 13).

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